



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: YANG, Tsun-Neng

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EXAMINER: Brock II, P.E.

TITLE: LIGHT-EMITTING DEVICE WITH A CURRENT BLOCKING STRUCTURE AND

METHOD FOR MAKING THE SAME

AMENDMENT "A"

Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Office Action of December 23, 2004, a response being due by March 23, 2005, please amend the above-identified application as follows:

## Amendment A: CLAIM AMENDMENTS

Please cancel Claims 1 - 17 and substitute Claims 18 - 21 therefor as follows:

Claims 1 - 17 (canceled).

18. (new) A light-emitting device with a current blocking structure comprising:

a substrate;

an epitaxial structure positioned on said substrate, said epitaxial structure having a bottom cladding layer and an upper cladding layer, said epitaxial structure having a light-emitting layer positioned between said bottom cladding layer and said upper cladding layer, said epitaxial structure having a window layer positioned on said upper cladding layer;

an ohmic contact electrode positioned on said epitaxial structure; and
a current blocking structure positioned inside said epitaxial structure, said
current blocking structure extending from a region below said ohmic contact electrode to at least
said light-emitting layer, said current blocking structure having an area that is smaller than an area
of said ohmic contact electrode.

- 19. (new) The light-emitting device of Claim 18, further comprising:

  a contact layer means positioned between said window layer and said ohmic
- contact electrode, said contact layer means for spreading current laterally.
- 20. (new) The light-emitting device of Claim 18, said current blocking structure extending to said bottom cladding layer.
- 21. (new) The light-emitting device of Claim 18, said ohmic contact electrode having a bottom surface, said current blocking structure extending from said bottom surface of said ohmic contract electrode.